

Global Friction Stir Welding Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Friction Stir Welding Equipment market size was valued at USD 251.2 million in 2023 and is forecast to a readjusted size of USD 395.4 million by 2030 with a CAGR of 6.7% during review period.

Friction stir welding (FSW) is a solid-state joining process that uses a non-consumable tool to join two facing workpieces without melting the workpiece material. Heat is generated by friction between the rotating tool and the workpiece material, which leads to a softened region near the FSW tool. While the tool is traversed along the joint line, it mechanically intermixes the two pieces of metal, and forges the hot and softened metal by the mechanical pressure, which is applied by the tool, much like joining clay, or dough. It is primarily used on wrought or extruded aluminium and particularly for structures which need very high weld strength.

Global Friction Stir Welding Equipment key players include Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Beijing FSW, FOOKE GmbH etc. Global top five manufacturers hold a share over 60%. Europe is the largest market, with a share over 30%, followed by North America and Asia-Pacific, both have a share over 40% percent.

In terms of product, Desktop Equipment is the largest segment, with a share over 50%. And in terms of application, the largest application is Automotive, followed by Aerospace and Railways.

The Global Info Research report includes an overview of the development of the Friction Stir Welding Equipment industry chain, the market status of Aerospace (Desktop

Equipment, Gantry Equipment), Automotive (Desktop Equipment, Gantry Equipment), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Friction Stir Welding Equipment.

Regionally, the report analyzes the Friction Stir Welding Equipment markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Friction Stir Welding Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Friction Stir Welding Equipment market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Friction Stir Welding Equipment industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Desktop Equipment, Gantry Equipment).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Friction Stir Welding Equipment market.

Regional Analysis: The report involves examining the Friction Stir Welding Equipment market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Friction Stir Welding Equipment market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Friction Stir Welding Equipment:

Company Analysis: Report covers individual Friction Stir Welding Equipment manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Friction Stir Welding Equipment. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Aerospace, Automotive).

Technology Analysis: Report covers specific technologies relevant to Friction Stir Welding Equipment. It assesses the current state, advancements, and potential future developments in Friction Stir Welding Equipment areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Friction Stir Welding Equipment market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Friction Stir Welding Equipment market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Desktop Equipment

Gantry Equipment

Others

Market segment by Application

Aerospace

Automotive

Shipbuilding

Railways

Others

Major players covered

Grenzebach Maschinenbau GmbH

Nova-Tech Engineering

Beijing FSW

FOOKE GmbH

PaR Systems

General Tool Company

Sooncable

Aerospace Engineering Equipment

HAGE Sondermaschinenbau GmbH

Stirtec GmbH

Hitachi

PTG

BTI

Mazak

Jinfeng

Gatwick

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Friction Stir Welding Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Friction Stir Welding Equipment, with price, sales, revenue and global market share of Friction Stir Welding Equipment from 2019 to 2024.

Chapter 3, the Friction Stir Welding Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Friction Stir Welding Equipment breakdown data are shown at the

regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Friction Stir Welding Equipment market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Friction Stir Welding Equipment.

Chapter 14 and 15, to describe Friction Stir Welding Equipment sales channel, distributors, customers, research findings and conclusion.

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